

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : George William Celniker Art Unit:
Serial No.: 09/019,465 Examiner:
Filed : February 5, 1998
Title : PERFORMING GEOSCIENCE INTERPRETATION WITH SIMULATED
DATA

Assistant Commissioner for Patents
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached
form PTO 1449, copies of which are enclosed.

This statement is being filed before the receipt of a
first office action on the merits.

Date of Deposit August 28, 1998
I hereby certify under 37 CFR 1.8(a) that this correspondence is being
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Howard J. Speight
Howard L. Speight

Respectfully submitted,

Date: 8/28/98

Howard L. Speight
Howard L. Speight
Reg. No. 37,733

Howard L. Speight
Attorney at Law
Two Memorial City Plaza
820 Gessner, Suite 1360
Houston, Texas 77024
Telephone: 713/465-1889

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Respectfully submitted,

Date: 7/25/98

Howard L. Speight
Howard L. Speight
Reg. No. 37,733

Howard L. Speight
Attorney at Law
Two Memorial City Plaza
820 Gessner, Suite 1360
Houston, Texas 77024

Telephone: (713) 465-1889
Facsimile: (713) 465-8018

Date of Deposit July 25, 1998
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Karen C. Hicks
Karen C. Hicks

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 08470/007002		SERIAL NO. 09/019,465	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))				APPLICANT George William Celniker			
				FILING DATE February 5, 1998		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	AL	PCT/US 97/24278	05/27/98	PCT			
	AM						
	AN						
	AO						
	AP						
OTHER DOCUMENTS (including Author, Title, Date, Place of Publication)							
	AQ	Bode, T. et al. "First experiences with GEOSTORE, an information system for geologically defined geometries" IGIS '94: GEOGRAPHIC INFORMATION SYSTEMS, INTERNATIONAL WORKSHOP ON ADVANCED RESEARCH IN GEOGRAPHIC INFORMATION SYSTEMS. ISBN 3-540-58795-0, 1994, Berlin, Springer-Verlag, Germany, pp. 35-44, XP002064462					
	AR	Jones, C.B. "Data structures for three-dimensional spatial information systems in geology," INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SYSTEMS, Jan-Mar 1989, UK, vol. 3, no. 1, ISSN 0269-3798, pp. 15-31, XP002064461					
	AS	Raafat, Hazem M. "An extended relational database for remotely sensed image data management within GIS," IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol. 29, no. 4, July 1991, New York, pp. 651-655, XP000258538					
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	AA	4	3	4	0	9	3	4	07/20/82	Segesman	364	422			
	AB	4	6	7	9	1	7	4	07/07/87	Gelfand	367	73			
	AC	4	9	6	9	1	3	0	11/06/90	Wason et al.	367	73			
	AD	5	2	1	4	6	1	3	05/25/93	Esmeroy	367	31			
	AE	5	3	9	4	3	2	5	02/28/95	Schneider, Jr.	364	421			
	AF														
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		DOCUMENT NUMBER							PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION		
													YES	NO	
	AL	0 299 862 A2							01/18/87	Europe					
	AM	GB 2300736 A							11/13/96	United Kingdom					
	AN	GB 2309562 A							07/30/97	United Kingdom					
	AO	PCT/US 97/24279							06/24/98	PCT					
	AP														
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)															
	AQ	Jespersion, S.K., et al., "Modeling of Received Signals from Interfaces of Arbitrary Geometry", 1995 IEEE Ultrasonics Symposium, published July 11, 1995, pp. 1561-1565.													
	AR														
	AS														
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	AA	4 9 2 2 2 5 4	05/01/90	Schuessler et al.	342	25	
	AB	5 3 5 5 0 8 8	10/11/94	Howard, Jr.	324	339	
	AC	5 5 5 3 4 9 2	09/10/96	Barrett et al.	73	152	
	AD	5 6 4 7 0 5 8	07/08/97	Agrawal et al.	395	601	
	AE	5 6 8 2 3 3 0	10/28/97	Seaman et al.	364	551	
	AF	4 8 2 1 2 1 4	04/11/89	Sederberg	364	522	
	AG						
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	AL	WO 91/04544	04/04/91	PCT	15	72	
	AM						
	AN						
	AO						
	AP						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
	AQ	Benediktsson, J.A., et al., "Classification and Feature Extraction of AVIRIS Data", <u>IEEE Transactions on Geoscience and Remote Sensing</u> , Vol. 33, iss. 5, Sept. 1995, pp. 1194-1205.					
	AR	Brown, P., "Collection and Quality Control of Marine Geological Data by the Ocean Drilling Program", <u>Oceans '88: A Partnership of Marine Interests</u> , 1988, pp. 1012-1017.					
	AS	Duff, B.L., et al., "Applications of Object-Oriented Approaches to Expert Systems in the Earth Sciences", <u>Developing and Managing Expert System Programs</u> , 1991, pp. 160-165.					
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	BL						
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	BN						
	BO						
	BP						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
	BQ	Roelofs, L.H., et al., "Applying Semantic Data Modeling Techniques to Large Mass Storage System Designs", <u>Mass Storage Systems, 1990 10th IEEE Symposium</u> , 1990, pp. 65-76.					
	BR	Starks, S.A., et al., "Navigating Large Databases Using a New High-Level Computer Language", <u>Northcon/95</u> 1995, pp. 49-54.					
	BS	Young, J.A., et al., "A Computer-Aided Geological Interpretation System for Subsurface Imaging", <u>Geoscience</u> <u>and Remote Sensing</u> , 1994 Symposium, pp. 854-856.					
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	CA						
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		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	CL						
	CM						
	CN						
	CO						
	CP						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
	CQ	Zhou, Guan-Xiong, et al., "An Expert System for Pattern Recognition Based on Features and Knowledge", <u>Pattern Recognition</u> , 1988 9th International Conference, 1988, pp. 1239-1241.					
	CR	Mallet, J.L., "GOCAD: A Computer-aided Design Program for Geological Applications", June 1989, pp. 1-37.					
	CS	Mallet, J.L., "Discrete Smooth Interpolation in Geometric Modelling", <u>Computer-Aided Design</u> , Vol. 24, No. 4, April 1992, pp. 177-192.					
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Substitute Disclosure Form (PTO-1449)